



























#### Features

- · Ultra slim design with 70mm(4SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W</li>
- · Isolation class II
- · Pass LPS (Limited power source)
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- · LED indicator for power on
- · 3 years warranty

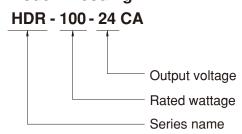
# Applications

- · Household control system
- · Building automation
- · Industrial control system
- Factory automation
- Electro-mechanical apparatus

#### Description

HDR-100 is one economical ultra slim 100W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 70mm(4SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-100 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 89%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-100 a very competitive power supply solution for household and industrial applications.

# Model Encoding



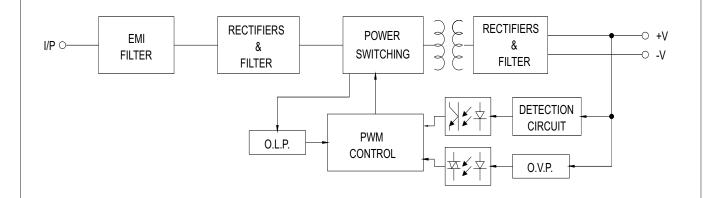


# **SPECIFICATION**

DC VOLTAGE		HDR-100-24				
			HDR-100-24			
		24V				
RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2		3.45A				
		0 ~ 3.45A				
		82.8W				
-						
		_ 110 /V				
SETUP, RISE TIME HOLD UP TIME (Typ.)		- ***				
VOLTAGE RANGE						
-		47 ~ 63Hz				
NPUT EFFICIENCY (Typ.)		89%				
,		3A/115VAC 1.6A/230VAC				
INRUSH CURRENT (Typ.)		COLD START 35A/115VAC 70A/230VAC				
OVERLOSS	Note 4	3.52 ~ 3.83A				
OVERLUAD	OVERLOAD Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed				
OVED VOLTACI	_	30 ~ 36V				
OVER VOLIAGI	•	Protection type: Shut down o/p voltage, re-power on to recover				
WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")				
WORKING HUM	IDITY	20 ~ 90% RH non-condensing				
STORAGE TEM	P., HUMIDITY	-40 $\sim$ +85 $^{\circ}$ C, 10 $\sim$ 95% RH non-condensing				
TEMP. COEFFICIENT		$\pm 0.03\%$ °C (0 ~ 50 °C) RH non-condensing				
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				
OPERATING ALTITUDE		2000 meters				
OVER VOLTAG	E CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters				
SAFETY STAND	ARDS	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1				
		Parameter	Standard	Test Level / Note		
				Class B		
EMC EMISSION			1.	Class B		
LINIO LINIOGIOI	•			Class A		
		, ,		Class A		
				Test Level /Note		
				Level 3, 8KV air; Level 2, 4KV contact, criteria		
		' '		Level 3, criteria A		
EMC IMMUNIT	Y			Level 3, criteria A		
		Surge	EN61000-4-5	Level 4,2KV/L-N, criteria A		
		Conducted	EN61000-4-6	Level 3, criteria A		
		Magnetic Field	EN61000-4-8	Level 4, criteria A		
		Voltage Dips and interruptions	EN61000-4-11	>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
MTBF		856.5K hrs min. MIL-HDBK-217F (25°C)				
DIMENSION	<b>MENSION</b> 70*90*54.5mm (W*H*D)					
PACKING		0.27Kg; 48pcs/14Kg/1.10CUFT				
<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf &amp; 47μf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Constant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode,it will recover automatically after fault condition is removed.</li> <li>The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500)</li> </ol>						
	VOLTAGE ADJ. RANGE  VOLTAGE TOLE LINE REGULATI LOAD REGULATI SETUP, RISE TII HOLD UP TIME VOLTAGE RANG FREQUENCY R. EFFICIENCY (Ty AC CURRENT (TI INRUSH CURRE OVERLOAD  OVER VOLTAGE WORKING TEM WORKING HUM STORAGE TEM TEMP. COEFFIC VIBRATION OPERATING A OVER VOLTAGE SAFETY STAND WITHSTAND VC ISOLATION RES  EMC EMISSION  PACKING  1. All paramete 2. Ripple & noie 3. Tolerance : 4. Constant curr fault condition 5. The power si	VOLTAGE ADJ. RANGE  VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) OVERLOAD  NOTER VOLTAGE  WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OPERATING ALTITUDE OVER VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  MITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  MTBF  DIMENSION PACKING 1. All parameters NOT specia 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Constant current limiting oper fault condition is removed. 5. The power supply is consided.	Non LPS	VOLTAGE ADJ.         Pass LPS Pass LPS Non LPS Pass LPS Non LPS Pass LPS Pass LPS Non LPS Pass LPS		

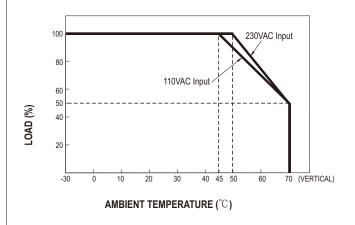


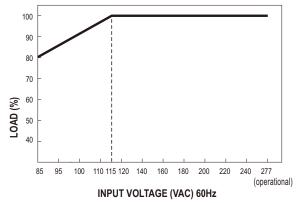
# ■ Block Diagram



# ■ Derating Curve VS Ambient Temperature

# ■ Output Derating VS Input Voltage

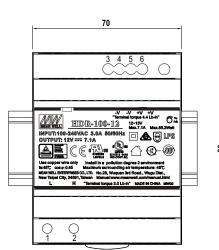


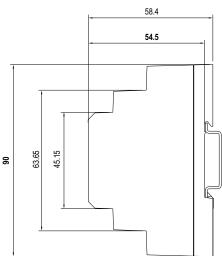


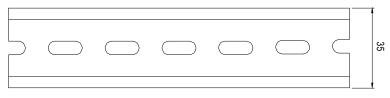


#### ■ Mechanical Specification

(Unit: mm , tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3,4	-V
2	AC/N	5,6	+V

#### ■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html